

Appl. No. ~~SerialNumber~~  
Amendment and/or Response  
Reply to Office action of 27 July 2005

Page 2 of 8

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) A method of tuning a receiver for a digital signal (MPEG2-TS), the method comprising the steps of:  
~~filtering (In-filt, Band-filt) an input signal (RF-in) via one or more filters to obtain a processed signal;~~  
~~determining (Mix/Osc/IF-amp, IF-downconv-2, Dig-dem, C) a digital figure of merit (BER) from the processed signal; and~~  
~~fine-adjusting (μP, PLL, DAC1-DAC3) the filtering step (In-filt, Band-filt,) a center frequency of at least one of the one or more filters in dependence on the digital figure of merit (BER).~~
2. (Currently amended) A The method as claimed in of claim 1, wherein the digital figure of merit (BER) is a bit-error rate.
3. (Currently amended) A The method as claimed in of claim 1, wherein  
~~the filtering step (In-filt, Band-filt) comprises includes at least one partial filtering step that is controlled by a control signal; and~~  
~~the fine-adjusting step (μP, PLL, DAC1-DAC3) comprises the step of includes~~  
adjusting the control signal in order to optimize the figure of merit.

Appl. No. «SerialNumber»  
Amendment and/or Response  
Reply to Office action of 27 July 2005

Page 3 of 8

4. (Currently amended) A The method as claimed in of claim 1, wherein  
the filtering step (In-filt, Band-filt) comprises includes at least two partial  
filtering steps that are controlled by at least first and second respective control  
signals; and  
the fine-adjusting step ( $\mu$ P, PLL, DAC1-DAC3) comprises the steps of includes  
adjusting the first control signal in order to optimize the digital figure of merit, to  
obtain an adjusted first control signal value, and, while the first control signal is kept  
at the adjusted first control signal value, adjusting the second control signal in order  
to optimize the digital figure of merit.

5. (Currently amended) A The method as claimed in of claim 1, wherein the filtering  
step (In-filt, Band-filt) uses circuitry that is one or more filters are factory pre-aligned.

6. (Currently amended) A receiver for a digital signal (MPEG2-TS), the receiver  
comprising:  
means for filtering (In-filt, Band-filt) one or more filters that are configured to  
filter an input signal (RF-in) to obtain a processed signal;  
means for determining (Mix/Osc/IF-amp, IF-downconv-2, Dig-dem, C) a  
decoder that is configured to determine a digital figure of merit (BER) from the  
processed signal; and  
means for fine-adjusting ( $\mu$ P, PLL, DAC1-DAC3) the filtering means (In-filt,  
Band-filt) a controller that is configured to adjust a center frequency of at least one of  
the one or more filters in dependence on the digital figure of merit.

7. (New) The receiver of claim 6, wherein the one or more filters include one or more  
RF filters.

8. (New) The receiver of claim 6, wherein the digital signal includes an MPEG  
encoded signal.

Appl. No. <SerialNumber>  
Amendment and/or Response  
Reply to Office action of 27 July 2005

Page 4 of 8

9. (New) The receiver of claim 6, wherein  
the controller includes  
a tuner that includes:  
a phase-locked-loop and  
a plurality of digital-to-analog converters,  
each of the digital-to-analog converters being configured to provide a control  
signal to each of the one or more filters.

10. (New) The receiver of claim 6, wherein  
the one or more filters include:  
an input filter, and  
a double tuned band-filter.

11. (New) The receiver of claim 10, further including:  
a pre-amp that is configured to operably couple the input filter to the band-  
filter, and  
a mixer that is configured to generate an IF signal from an output of the band-  
filter,  
wherein,  
the decoder is configured to receive the IF signal and to produce therefrom a  
digital output signal and the figure of merit.

12. (New) The receiver of claim 6, wherein  
the figure of merit includes a bit-error rate.

Appl. No. & Serial Number  
Amendment and/or Response  
Reply to Office action of 27 July 2005

Page 5 of 8

13. (New) A method comprising:

receiving an RF input signal,  
filtering the RF input signal via one or more RF filters to provide a filtered RF signal,  
mixing the filtered RF signal with an oscillator signal to provide an IF signal,  
demodulating the IF signal to provide a digital output signal and a figure of merit associated with the digital output signal, and  
adjusting at least one filter of the one or more RF filters based on the figure of merit.

14. (New) The method of claim 13, wherein

adjusting the at least one filter includes adjusting a center frequency of the at least one filter.

15. (New) The method of claim 14, further including

adjusting a center frequency of another filter of the one or more RF filters.

16. (New) The method of claim 15, wherein

the adjusting of the center frequency of the at least one filter and the another filter occur sequentially.

17. (New) The method of claim 13, further including

adjusting another filter of the one or more RF filters.

18. (New) The method of claim 17, wherein

the adjusting of the at least one filter and the another filter occur sequentially.

Appl. No. «SerialNumber»  
Amendment and/or Response  
Reply to Office action of 27 July 2005

Page 6 of 8

19. (New) The method of claim 18, wherein

the adjusting of the at least one filter and the another filter are based on a first control signal and a second control signal that are each independently determined based on first and second sequences of figures of merit.

20. (New) The method of claim 13, wherein

the figure of merit includes a bit-error rate.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**